

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently amended) A method for preparing a carbon with enhanced electronic conductivity comprising
oxidatively polymerizing with an oxidizing agent comprising ozone a monomer of a conducting polymer containing a hetero atom ~~atoms~~ with particulate carbonaceous material to form a conducting polymer-grafted carbonaceous material; and then metallizing the conducting polymer-grafted carbonaceous material.
2. (Currently amended) The method of claim 1, wherein the carbonaceous material comprises ~~comprises~~ [[is]] carbon black, graphite, nanocarbon ~~nanocarbons~~, fullerene ~~fullerenes~~, fullerenic ~~fullerine~~ material, finely divided carbon, or a mixture ~~mixtures~~ thereof.
3. (Currently amended) The method of claim 1, wherein the carbonaceous material comprises ~~comprises~~ [[is]] carbon black.
4. (Currently amended) The method of claim 1, wherein the monomer of a conducting polymer comprises ~~comprises~~ [[is]] an amino aryl or a nitrogen heterocycle.
5. (Original) The method of claim 1, wherein the oxidatively polymerizing comprises adding ozone to a mixture of the carbonaceous material and the monomer of the conducting polymer.
6. (Original) The method of claim 5, wherein the mixture of the carbonaceous material and the monomer of the conducting polymer further comprises an acid solvent to form a slightly acidic environment.
7. (Original) The method of claim 6, wherein the slightly acidic environment is a pH of about less than 7.
8. (Original) The method of claim 6, wherein the slightly acidic environment is a pH of about 3 to about 4.

9. (Currently amended) The method of claim 1, wherein the conducting polymer comprises ~~[[is]]~~ polyaniline, polypyrrole, polyfuran, polythiophene, poly(p-phenylene-oxide), poly(p-phenylene-sulfide), a substituted conducting polymer ~~polymers~~, or a mixture thereof.
10. (Canceled)
11. (Currently amended) The method of claim 1 ~~[[10]]~~, wherein the metallizing comprises adding a metal-containing material to the conducting polymer-grafted carbonaceous material.
12. (Original) The method of claim 11, wherein the metallizing further comprises adding a reducing agent.
13. (Currently amended) The method of claim 1 ~~[[10]]~~, wherein the metallizing comprises ~~[[is]]~~ platinizing.
14. (Currently amended) The method of claim 12, wherein the reducing agent comprises ~~[[is]]~~ formaldehyde, sodium borohydride, hydrogen, hydrazine, hydroxyl amine, or a mixture thereof ~~of reducing agents~~.
15. (Currently amended) The method of claim 11, wherein the metal-containing material comprises ~~[[is]]~~ chloroplatinic acid, platinum nitrate, platinum halide ~~halides~~, platinum cyanide, platinum sulfide, organoplatinum salt ~~salts~~, or a mixture thereof.
16. (Withdrawn) A composition made by the method of claim 1.